

CLAIMS

1. A wheel (1, 1a, 1b) for a piece of sports equipment, especially for grass skiing, comprising a rim (2) and a tire (3) that consists of several layers, is fastened to the rim (2) and is provided with a tread (9), and at least one support element (6) for the tire (3), which support element is provided with a resilient configuration and extends in a curved manner from a first bearing section (5) to a second bearing section (5), characterized in that the support element (6) supports the tire (3) essentially along the entire distance of the cross section thereof, and that the tire (3) is provided, adjacent to the tread towards the interior of the wheel, with a layer (10) that is elastic in the direction of thickness thereof.
2. A wheel (1; 1a, 1b) according to claim 1, characterized in that the first and second bearing section (5) are arranged at mutually opposite sides of the outer circumference of the rim (2).
3. A wheel (1; 1a, 1b) according to claim 1 or 2, characterized in that a plurality of support elements (6) are provided which are arranged in the circumferential direction at a distance next to one another.
4. A wheel (1; 1a, 1b) according to one of the claims 1 to 3, characterized in that the layer (10) which is elastic in the direction of thickness consists of sponge rubber and comprises a thickness (D_2) in the medial plane (2a) which is at least five times but preferably ten times as large as the thickness (D_1) of the tread (9).
5. A wheel (1; 1a, 1b) according to claim 3 or 4, characterized in that the support elements (6) are arranged as meandering spring wires.
6. A wheel (1; 1a, 1b) according to one of the claims 1 to 5, characterized in that additional spring elements are provided for supporting the support elements (6).
7. A wheel (1; 1a, 1b) according to one of the claims 1 to 6, characterized in that the support element (6) is clamped on the rim (2).

8. A wheel (1; 1a, 1b) according to one of the claims 1 to 6, characterized in that the support element (6) is articulated on the rim (2).
9. A wheel (1; 1a, 1b) according to one of the claims 1 to 6, characterized in that the support element (6) is resiliently held on the rim (2).
10. A wheel (1; 1a, 1b) according to one of the claims 1 to 9, characterized in that the wheel (3) is rigidly connected on both sides with the rim (2) and rests freely on the support element (6).
11. A wheel (1; 1a, 1b) according to one of the claims 1 to 10, characterized in that the wheel (3) is provided with a three-layer configuration and consists of a tread (9), a soft-elastic inner layer (10) and a support layer (11).
12. A wheel (1; 1a, 1b) according to one of the claims 1 to 11, characterized in that an engagement element (13) is provided on the rim (2) adjacent to the wheel (3), which engagement element extends along the circumference of the rim (2).
13. A wheel (1; 1a, 1b) according to one of the claims 1 to 12, characterized in that the wheel (3) is provided with a non-pressurized configuration.
14. A wheel (1; 1a, 1b) according to one of the claims 1 to 13, characterized in that the outside diameter of the rim (2) corresponds to approximately half the outside diameter (D) of the tire (3).
15. A piece of sports equipment, especially for grass skiing, comprising a frame (20) which extends in the longitudinal direction and on which at least two wheels (1; 1a, 1b) with elastically deformable tires (3) are rigidly held, a binding (21) for fastening the sports device to a shoe (22) of a person using the sports device, with a front wheel (1a) being arranged in front of the binding (21) and a rear wheel (1b) being arranged behind the binding (21), and with an extension (25) being provided on the frame (20) behind the rear wheel (1b), which extension is designated for steering the sports device and comprises at its distal end a support section (26),

characterized in that the extension (25) can be brought by displacement of weight from a position above the ground (27) to a position in which as a result of sufficient deformability of the wheels (1; 1a, 1b) it simultaneously touches the ground (27) with the front and rear wheels (1a, 1b), and that at least one wheel (1; 1a, 1b) is arranged according to one of the claims 1 to 14.

16. A sports device according to claim 15, characterized in that the extension (26) is fastened to the frame in a resilient manner.
17. A sports device according to claim 15 or 16, characterized in that the extension (26) is elastic.
18. A sports device according to one of the claims 15 to 17, characterized in that the support section (26) is provided with a plate-like configuration.
19. A sports device according to one of the claims 15 to 18, characterized in that the diameter (D) of the wheels (1; 1a, 1b) is between 20% and 50%, preferably approximately 30% of the axial distance (L).
20. A sports device according to one of the claims 15 to 19, characterized in that the binding (21) is arranged directly in front of the rear wheel (1b).
21. A sports device according to one of the claims 15 to 20, characterized in that the frame (20) is provided with a rigid configuration.
22. A sports device according to one of the claims 15 to 21, characterized in that the distance (A) of the support section (26) from the axle (29) of the rear wheel (1b) is between 30% and 60%, preferably between 40% and 50% of the axle base (L).
23. A sports device according to one of the claims 15 to 22, characterized in that at nominal load the support section (26) is at a height (x) above the ground which is lower than the path (y, z) by which the rear wheel (1b) or the front wheel (1a) are deformed.

24. A sports device according to one of the claims 15 to 23, characterized in that at nominal load the path (y, z) by which the rear wheel (1b) or the front wheel (1a) are deformed is larger than 15 mm.

